

Date: Mon, 2 May 94 01:49:49 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #477
To: Info-Hams

Info-Hams Digest Mon, 2 May 94 Volume 94 : Issue 477

Today's Topics:

Amateur Radio Newsline #872 29 Apr 94
Conn. Commission: ARR
Daily Summary of Solar Geophysical Activity for 30 April
HT Harness's
IPS Monthly Report - April 94
Luck Hurder ... gone:(Why?
Recs for HF transceiver

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sun, 1 May 1994 21:34:51 MDT
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!
ve6mgs!usenet@network.ucsd.edu
Subject: Amateur Radio Newsline #872 29 Apr 94
To: info-hams@ucsd.edu

The electronic publication of the Amateur Radio Newsline is distributed
with the permission of Bill Pasternak, WA6ITF, President and Editor of
Newsline. The text version is edited from the original scripts and
transcribed from the audio reports by Dale Cary, WD0AKO, and is first
published in The Radio & Electronics Round Table on the Genie Online
System.

If you have any comment, suggestion, or news item you would like to submit,
send them via E-Mail to 3241437@mcimail.com or B.PASTERNAK@genie.geis.com.
You can contact Newsline at +1 805-296-7180. It is a combination answering

and FAX machine, if you have a FAX to send, wait for the voice prompt and press your fax-send button.

All other information and disclaimers are in the text header below.

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NEWSLINE RADIO - CBBS EDITION #122 - POSTED 04/30/94

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The following is late news about Amateur Radio for Radio Amateurs as prepared from NEWSLINE RADIO scripts by the staff of the AMATEUR RADIO NEWSLINE, INC. -- formerly the WESTLINK RADIO NETWORK. For current information updates, please call

Audio Version of Newsline

=====

Los Angeles.....	(213) 462-0008
Los Angeles (Instant Update Line).....	(805) 296-2407
Seattle.....	(206) 368-3969
Seattle.....	(206) 281-8455
Tacoma.....	(206) 927-7373
Louisville.....	(502) 894-8559
Dayton.....	(513) 275-9991
Chicago.....	(708) 289-0423
New York City.....	(718) 353-2801
Melbourne, FL.....	(407) 259-4479

Electronic Hardcopy Version of Newsline

=====

GEnie (RTC Bulletin Board).....	m345;1
GEnie (File Library).....	m345;3
Dallas Remote Imaging BBS (DRIG).....	(214) 492-7573

In bulletin number 36
The Midwest Connection BBS..... (701) 239-2440
In bulletin number 6 of the ham radio conference
Delphi.....
In the ham radio conference
Internet.....
In the rec.radio.info newsgroup
FTP: oak.oakland.edu, file: pub/hamradio/docs/newsline
Fidonet, RIME, Intellec, I-Link.....
In the Ham Radio conference of those networks

For the latest breaking info call the Instant Update Line listed above. To provide information please call (805) 296-7180. This line answers automatically and will accept up to 30 minutes of material.

Check with your local amateur radio club to see if NEWSLINE can be heard weekly on the air in your area.

Articles may be reproduced if printed in their entirety and credit is given to AMATEUR RADIO NEWSLINE as being the source.

For further information about the AMATEUR RADIO NEWSLINE, please write to us with an SASE at P.O. Box 463, Pasadena, CA 91102.

Thank You
NEWSLINE

(*****)

Some of the hams of NEWSLINE RADIO...

WA6ITF WB6MQV WB6FDF K6DUE W6RCL N6AHU N6AWE N6TCQ K6PGX N6PNY
KU8R N8DTN W9JUV KC9RP K9XI KB5KCH KC5UD KC0HF G8AUU WD0AKO DJ0QN
and many others in the United States and around the globe!!!

(*****)

[872]

(* * * * C L O S E D C I R C U I T A D V I S O R Y * * * *)
(* * * * * *)
(* The following is a closed circuit advisory and is NOT *)
(* for transmission over AMATEUR RADIO. According to Newsline *)
(* Support Fund administrator Norm Chalfin, K6PGX, the funds *)
(* needed to keep Newsline in operation are once again low. *)
(* According to Norm, it now costs a bit over \$850 a month to *)

(* pay the telecommunications and equipment supply bills. *

(* That's up over \$150 from the same time last year. *

(* For those of you unaware, Newsline pays the cost of three *

(* telephones including the one used for news gathering. We *

(* also pay for several electronic news and information *

(* services, we pay for electronic mail, for raw tape stock and *

(* the cost of repairing and updating our production *

(* facilities. *

(* Right now, Newsline has enough funds to carry it through *

(* to the end of April, but that's it. Therefore we are once *

(* again appealing to all of our listeners to assist in any way *

(* that you can so that Newsline can continue to being you *

(* these weekly ham radio news bulletins. Our address is the *

(* Newsline Support Fund, Post Office Box 463, Pasadena, CA *

(* 91102. *

(* Again, and as always, we thank you for your ongoing *

(* interest and support. And that ends the closed circuit *

(* advisory with Newsline report number 872 for release on *

(* Friday, April 29, 1994. *

(* *

(* * * * *

The following is a QST

The FCC says that there will no fee for a basic ham radio license, an unlicensed broadcaster is told to pay up and Dayton '94 is on! These stories and more on Newsline report number 872 coming your way right now.

(*****

LICENSE FEE NPRM RELEASED

Basic ham radio licensing will remain free but there definitely will be a nominal charge to hams who want a special vanity call sign. This is the just of an FCC Notice of Proposed Rule Making aimed at implementing the new fee assessments for various licensees that were authorized under the 1993 US Budget Act.

It's item number fifty-nine that is of interest to the Amateur Radio service. It proposes a specific fee structure for amateur "vanity" call signs if the Commission's proposal for a plan to offer such call signs eventually is approved. The FCC's current proposal is to assess a fee of \$70. That's actually seven dollars a year for the ten year term of an Amateur Radio license.

The good news in all of this? There are no other government fees being proposed for any other aspect of the ham radio licensing process.

(*****

YODER

An unlicensed broadcaster has been told to pay a hefty fine. The FCC says that it is denying Andrew R. Yoder's Application for Review of his \$17,500 penalty for allegedly and repeatedly operating an unlicensed broadcast station. The FCC categorically rejected Yoder's argument that the evidence against him was purely circumstantial and insufficient to establish that he was legally in control of the so called pirate station.

On February 22nd and 23rd 1992, FCC engineers monitored transmissions from an unlicensed broadcaster on 7.415 Mhz. The station identified itself s Radio USA. The transmissions were eventually traced to Yoder's parents home in Springs, Pennsylvania. When FCC investigators arrived they found Yoder's car parked in the driveway and attempted to make a station inspection. But they were barred from entry by Yoder who says that he is in no way obligated to allow Commission personnel to inspect his station.

While the FCC never did see the alleged pirate broadcast station, they say that the station and operator were positively identified by both voice and close-in direction finding. Later, audio tape analysis and voice printing indicated that Yoder's voice was the same as that monitored on the Radio USA broadcasts.

As previously reported, on May 21st 1992, the Laurel, Maryland FCC Field Operations Bureau issued Yoder a \$17,500 Notice of Apparent Liability to Monetary Forfeiture. The NAL was converted to a fine after the FCC rejected Yoder's response. Yoder was ordered to pay the fine before April 11th 1994 or face further punitive action.

(*****

INVESTIGATION EVIDENCE

Still with FCC regulatory issues, word that the investigation of irregularities in numerous California VE test sessions is still ongoing and the government is seeking evidence in the case. The feeling among Washington insiders is that the investigation may soon expand outside of California. Some believe that there is the possibility of ties to VE teams in other states including south Florida and Texas and areas in the Caribbean.

If you have any information that you feel might help in this or any other alleged licensing fraud case there are a number of ways to get it to the investigators handling the matter. After looking at all the possible avenues it is our conclusion that the best one of all is to contact Bart Jahnke, KB9NM who runs the American Radio Relay League's VEC operation. Bart has been handling the current investigation for the American Radio Relay League and in our view he is an excellent person to channel any facts concerning

this matter to the FCC.

There is no way that Bart or anyone else can promise you anonymity, but Bart can be reached at the ARRL VEC, area code (203) 666-1541. If you would rather write, his address is Bart Jahnke, in care of the ARRL VEC, 225 Main Street, Newington, Connecticut 06111.

(*****

FCC ORDERS SOUTHERN CALIFORNIA RETESTS

Here is a late breaking story. Word that Fifty nine Southern California hams have been ordered by the FCC to stand for retesting or face the possibility of further punitive government action. The FCC says that all fifty nine are hams who passed at examination sessions conducted by the ARRL VEC in 1992 and 1993. They say that the examinations and the administering Volunteer Examiners that gave them are now under intensive scrutiny by the Commission and other government agencies.

In its letter to those being ordered retested, the FCC flatly accused the applicants examined at those exam sessions of cheating. The letters say in part: "...the irregularities on your examination papers indicate that you were apparently given access to the exact (answer) key used by the volunteer examiners."

The commission has given the fifty-nine applicants exactly sixty days in which to retake any disqualified examination element at a session being conducted by the Greater Los Angeles Amateur Radio Group VEC. Failure to pass a retest will result in license class downgrade, loss of call sign or loss of license entirely, as deemed appropriate by the FCC.

In issuing the retesting order, the FCC also mandated that no volunteer examiner who was present at the suspect session, regardless of whether or not he administered test elements at those sessions, would be permitted to attend or administer a re-examination.

So far almost three dozen VE's throughout California have been suspended on FCC orders to the Volunteer Examination Coordinators under whom they serve. The bulk of these being in the southern half of the state and to mandated retesting order by the FCC is viewed as another step that could lead to criminal charges being filed against volunteer examiners that the FCC believes aided and abetted applicants to obtain amateur radio licenses or upgrades through fraudulent means.

(*****

EDITORIAL NOTE: EXAM CHEATING

If we may be permitted a brief editorial opinion. Be it California, Florida, Texas, New York or anywhere else, there is

simply no place in ham radio for those who may be profiteering by bringing in people who do not meet the minimum criteria for entry.

We at Newsline have made exposing those behind any testing scam a number one priority. This is one matter that we at Newsline will not let die in the Washington bureaucratic red tape.

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DAYTON '94

As this newscast goes to air, the 1994 Dayton Hamvention is just getting underway. Reports from Dayton's Hara Arena say that '94 may be the best Hamvention in years. Newsline will have a complete wrap-up on Hamvention '94 next week.

(*****

MOTOROLA SUIT

A name well known to radio amateurs is Motorola. The company pioneered two way FM communications. Many an early FMer started out with a single channel 80 D or Motrac in the trunk of his car. The HT 220 hand held is a legend to FMers and it was Motorola that supplied the handie talkies used on all of the SAREX space shuttle missions. But now Motorola is in trouble with its competitors who are claiming unfair business tactics.

The city of Birmingham, Alabama wants to upgrade its police and fire rescue radio system. Motorola submitted a bid of nearly \$11.5 million for an 800 Mhz trunked system. That's near a million dollars more than the bid submitted by Erickson GE Mobile communications. None the less the city signed a contract with Motorola. Erickson GE accused the city officials of violating state bid laws. The company has filed suit against the city in Federal Court.

Counsel member Jimmy Blake opposed giving the contract to Motorola. He said the city did not follow proper bid procedures. The next step is up to a Federal Judge.

If one prediction comes true, Motorola will still wind up the winner. There is speculation that city leaders will throw out the proposals and solicit a new set of bids. If that happens the city could make the bid specifications so strict that only one company's system can be considered.

(*****

CALIFORNIA HERO

Amateur Radio recently made headlines in Acton, California when 36 year old Chris Killian, N7IOV, helped in the capture of two robbers. According to the Antelope Valley News of Lancaster,

California Killian was approached by an armed man in a McDonald's restaurant. The alleged felon inquiring about Killian's Hand-held radio.

When the man and an accomplice left the eatery, Killian, who is a reserve deputy, followed and relayed their route to another ham who contacted sheriff's deputies. The two suspects were picked up that night and charged in the hold-up. Killian told the News that he ordinarily doesn't carry a radio with him but that he'd been using the hand-held the previous weekend to test several area repeater stations.

(*****

MISSISSIPPI ICE STORM

The massive ice storm that hit much of the U.S. on in February was especially damaging in Mississippi, and was the worst there in more than 40 years. This, according to Hank Downey, K5QNE.

Downey, writing in The Magnolia Report ham radio newsletter says that the State's Amateur Radio disaster relief efforts were led by Jim Porter, W5HTV. Porter is Director of Communications for the Mississippi Emergency Management Agency. He and Larry Clark, WB5AKR who is that groups statewide liaison to the Amateur Radio community directed traffic handling while also sending amateurs to areas of greatest need.

Porters just released report says that several amateurs were able to set up from mobile and portable, emergency-powered sites and to activate the Magnolia Net. This is the Mississippi Section phone net and its key operators included among its members was net manager Al Sudduth, WA5TPM. Al operated mobile after his home antennas came down in the ice.

Porter also writes that the Jackson Amateur Radio Club activated W5PFC, their permanent station at the State Headquarters of the American Red Cross in the capital city, to coordinate with Red Cross offices around the state.

As we go to air, its reported that many hams in this same area have just completed handling communications for the recent flood emergency. You have seen the pictures on CNN and other television news services. That story as soon as the ham radio details are known.

(*****

HERTZBERG OBIT

The changing of the guard in Amateur Radio continues with the sad news that Joe Hertzberg, N3EA has died. The ARRL reports that Hertzberg passed away in Silver Spring, Maryland at age 86.

Joe was previously known as K3JH and was first licensed in 1926. During World War Two he was involved in the development of

electronic navigation systems. His work brought him wide acclaim and he was decorated by both the U.S. and England.

After the war Hertzberg went to work for RCA and in 1956 was named RCA Man Of The Year. He ended his career as a corporate vice president of RCA. In the late 1960s, he became active in Amateur Radio once again and his station included a full-size 80 meter cubical quad on a 115 foot Telrex "Big Bertha" rotating pole that was featured in a 1970 QST. He put his station to good use following several natural disasters, including a 1972 earthquake in Nicaragua.

Joe Hertzberg, N3EA dead at age 86.

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TV ENGINEER KILLED ON REMOTE

A television remote pick-up broadcast engineer was on assignment for CNN was electrocuted while in a broadcast van outside a federal courthouse. Al Battle, 37, was part of a technical crew from Potomac Television Services Corp., which provides services to the Cable News Network.

Battle was inside the van raising the antenna mast when the microwave dish hit a wire on February 22. He was at the courthouse for a story about a CIA official and his wife who were charged with spying. As far as we can determine Al Battle was not a radio amateur.

(*****

MIR / SAREX LINK

The space shuttle and the Russian Mir space station have QSO's by ham radio. On April 13th astronaut Jay Apt, N5QWL, contacted Rita Iaquinto, VK3CFI, in Melbourne, Australia. At the same time Russian cosmonaut Valery Polyakov, U3MIR, hooked up with Graham Ratcliff, VK5AGR, in Adelaide. The Australians then used a telephone link to connect the two spacecraft as both passed over Australia, at 5:36 PM Australia time. The Shuttle to Mir contact was arranged by the Shuttle Amateur Radio Experiment Working Group.

(*****

BAKER TO NEW ZEALAND

Finally, NASA Astronaut Dr. Ellen Baker KB5SIX, is soon to journey down-under. Dr. Baker was flying near New Zealand in the space shuttle when she expressed a desire to see that country close up.

In 1992 NASA Astronaut Dr. Ellen Baker, KB5SIX orbiting in the space shuttle Columbia was on a ground track slightly to the

north of New Zealand. She spoke with many New Zealand radio amateurs, one of whom was Adrian Watkins, ZL2UGK.

Dr. Ellen Bakers 1992 wish to visit New Zealand has come true. On June 7th this year KB5SIX is to be guest speaker at the New Zealand Association of Radio Transmitters Annual conference in New Plymouth. A city in the New Zealand north province of Taranaki.

From flying high in the space shuttle Columbia to visiting down under, a dream has come true. And all from an idea in the mind of conference organizer Adrian Watkins, now sporting the callsign ZL2JPL.

Adrian says using amateur radio connection in the U.S.A. they tracked down Dr. Baker and invited her to the conference as guest speaker. Her initial reaction, "Is this a friend playing a practical joke?" She was overwhelmed when she realized it was for real.

Dr. Baker says she enjoyed speaking with many ham radio operators in New Zealand during her last flight aboard the Columbia and is looking forward to meeting her friends from the airwaves.

Dr. Bakers trip to New Zealand will take a bit longer this time. She is traveling by commercial airliner at about 500 miles an hour. That's a lot slower than the 17,000 miles per hour speed of a shuttle orbiter.

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And for this week, that's all from the Amateur Radio Newsline. You can write to us at Post Office Box 463, Pasadena, CA 91102.

(* * * Newsline Copyright 1994 all rights are reserved. * * *

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[illegible]

Date: 01 May 94 21:48:28
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!news.duke.edu!solaris.cc.vt.edu!
news.ans.net!inca.gate.net!branch!branch!Dave.Trombly!
f138.n369.z1.fidonet.org@network.ucsd.edu

Subject: Conn. Commission: ARR
To: info-hams@ucsd.edu

Duffy,

It's not okay for any institution to discriminate against anyone! I happen to be gay, and no, I don't push my lifestyle in anyones face. I'm not a flaming queen, I don't walk around limp-wristed nor do I wear a leather costume. I look and act just like any Tom, Dick or Harry.

No, It's not okay for any institution to discriminate. It's wrong.

Dave Trombly

*** Radio Virus *** The program noone wants to catch!

--- WM v3.10/93-0975

Date: Sun, 1 May 1994 20:54:10 MDT
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!ve6mgs!usenet@network.ucsd.edu
Subject: Daily Summary of Solar Geophysical Activity for 30 April
To: info-hams@ucsd.edu

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DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

30 APRIL, 1994

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(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 30 APRIL, 1994

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 120, 04/30/94
10.7 FLUX=074.9 90-AVG=090 SSN=038 BKI=0110 1010 BAI=001
BGND-XRAY=A4.4 FLU1=1.1E+05 FLU10=1.2E+04 PKI=0110 1011 PAI=002
BOU-DEV=004,006,005,002,009,004,007,002 DEV-AVG=004 NT SWF=00:000

XRAY-MAX= B3.8 @ 1150UT XRAY-MIN= A4.1 @ 2042UT XRAY-AVG= A7.1
 NEUTN-MAX= +003% @ 0310UT NEUTN-MIN= -001% @ 2200UT NEUTN-AVG= +0.2%
 PCA-MAX= +0.2DB @ 1820UT PCA-MIN= -0.2DB @ 1845UT PCA-AVG= +0.0DB
 BOUTF-MAX=55340NT @ 1319UT BOUTF-MIN=55316NT @ 1755UT BOUTF-AVG=55332NT
 GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+087,+000,+000
 GOES6-MAX=P:+138NT@ 2045UT GOES6-MIN=N:-063NT@ 0458UT G6-AVG=+106,+025,-028
 FLUXFCST=STD:075,075,080;SESC:075,075,080 BAI/PAI-FCST=030,035,030/040,050,040
 KFCST=2345 6635 5445 6656 27DAY-AP=076,050 27DAY-KP=5776 5557 6675 4434
 WARNINGS=*GSTRM;*AURMIDWRN
 ALERTS=
 !!END-DATA!!

NOTE: The Effective Sunspot Number for 29 APR 94 is not available.
 The Full Kp Indices for 29 APR 94 are: 1- 2- 3- 1+ 1o 0+ 1o 3-
 The 3-Hr Ap Indices for 29 APR 94 are: 3 6 13 5 4 2 4 12
 Greater than 2 MeV Electron Fluence for 30 APR is: 1.2E+07

SYNOPSIS OF ACTIVITY

Solar activity was very low. Activity was limited to a series of uncorrelated B-class x-ray bursts. Regions 7710 (S14W56), 7711 (S10W02), and 7712 (S12E21) were numbered today.

Solar activity forecast: solar activity is expected to be very low.

The geomagnetic field has been at quiet levels for the past 24 hours.

Geophysical activity forecast: the geomagnetic field is expected to be quiet for half of the first day of the forecast period, then active to minor storm for the remainder of the forecast period. Activity is expected as the result of a favorably positioned coronal hole.

Event probabilities 01 may-03 may

Class M	01/01/01
Class X	01/01/01
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 01 may-03 may

A. Middle Latitudes	
Active	35/30/30

Minor Storm	35/40/40
Major-Severe Storm	15/20/20

B. High Latitudes	
Active	35/30/30
Minor Storm	40/45/45
Major-Severe Storm	15/20/20

HF propagation conditions were near-normal over all regions. The anticipated disturbance has not yet arrived, but is still expected to arrive over the next 24 hours. If it does, signal quality for middle to polar latitude paths should deteriorate (possibly rapidly) on 01 May. Conditions are expected to remain degraded throughout the next week.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 30/2400Z APRIL

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
7710	S14W56	041	0010	BX0	03	003	BETA	
7711	S10W02	347	0020	CRO	03	002	BETA	
7712	S12E21	324	0010	BX0	03	003	BETA	
7704	N14W68	053					PLAGE	

REGIONS DUE TO RETURN 01 MAY TO 03 MAY

NMBR LAT LO

NONE

LISTING OF SOLAR ENERGETIC EVENTS FOR 30 APRIL, 1994

NONE

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 30 APRIL, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
NO EVENTS OBSERVED								

INFERRED CORONAL HOLES. LOCATIONS VALID AT 30/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS

	EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
78	S85E87	S85E87	S85W90	S20W43	341	EXT	NEG	164	10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
28 Apr:	0106	0109	0111	B1.0						
	0138	0144	0149	B3.9						
	1437	1442	1446	B1.6						
	1644	1649	1656	B1.2						
	1955	2239	2302	B5.9	SF	7707	N02W69			
29 Apr:	0548	0556	0613	B3.6						
	0752	0759	0804	B1.9						
	1254	1254	1300		SF	7707	S00W74			
	1626	1633	1638	B2.4						
	1824	1828	1832	B1.9						
	1949	1952	1954	B1.6						
	2038	2042	2045	B1.2						
	2056	2100	2106	B1.3						
	2256	2302	2310	B1.9						

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7707:	0	0	0	2	0	0	0	0	002	(14.3)
Uncorrelated:	0	0	0	0	0	0	0	0	012	(85.7)

Total Events: 014 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
28 Apr:	0138	0144	0149	B3.9				II,III
	1955	2239	2302	B5.9	SF	7707	N02W69	III

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,
Surge	= Bright Limb Surge,
EPL	= Eruptive Prominence on the Limb.

** End of Daily Report **

Date: Mon, 2 May 1994 03:23:13 GMT
From: netcomsv!netcom.com!cslye@decwrl.dec.com
Subject: HT Harness's
To: info-hams@ucsd.edu

There is also another place that sells these, Life Assist. (They are my local CMC dealer, I do not know of other ones, but you can call CMC at 800-235-5741) These are CMC (California Mountain Company) harness's. There are 2 types, and also a watersound one. Here is all the info.

CMC Rescue Deluxe Radio Harness (39.95)

For the rescuer who wants his radio harness to carry more than just a radio, we designed the Deluxe Radio Harness. We started with the stable design found in our regular radio harness and added several features. We included pockets for batteries, pens, mini-lights and maps. The elastic strip on the breastplate can be used to attach smoke cans or film cans for holding things like earphones or spare bulbs. Since the Deluxe Radio Harness is made of 1000 denier Cordura nylon it will not be as cool as the regular mesh harness. Color: Black

My comment since I have a nice big color picture here is that it is a good looking harness. Would be great for RACES (Or whatever that rescue HAM thing is, as some know I am just getting in to ham so...)

CMC Rescue Radio Harness (21.95)

We designed this harness to carry a standard size, hand-held radio on the user's chest, where it's protected from the impact and weather, yet is easily accessible. Just squeeze and talk, no need to remove from the harness. This CMC Rescue design is unique in many respects. It offers extra stability, features a mesh breatherplate for cooler wear, and has an adjustable strap

pocket system which will fit a wide range of radio shapes. Color: Black

EWA Watersound (Standard: 59.95 Large: 69.95)

Protect your hand-held radios with the EWA Watersound. This flexible, lightweight, waterproff housing seals out water, salt spray, sand and dust. It is used by lifeguards, river rescue and dive teams, whitewater guides, hazmat and search & rescue teams operating in the rain or water. The housing is made from double laminated PVC. The radio is operated while it's inside the pouch. A finger insert makes adjustable top mounted control knobs easy. The housing has a corrosion proof closing rail with stainless steel screws and comes with an adjustable carrying strap. The standard size fits radios up to 2-1/2in. wide, 1-1/2in. deep and 7-1/2in high with a 15in. antenna. The large size fits radio up to 4-1/2in. wide, 3in deep and 11-1/2 in. high with a 19in. antenna. Both units are pressure tested to a depth of 66 feet.

WOW That was long :) Sorry about the bandwidth wasting, but I found these good for Ham radios operators that work events, etc.
Hope it saves a radio from being droped or getting soaked :)

--

cslve@netcom.com

Date: Mon, 2 May 1994 03:36:26 GMT

From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!EU.net!sunic!
trane.uninett.no!nntp.uio.no!ifi.uio.no!wabbit.cc.uow.edu.au!news.ci.com.au!metro!
ipso!rwc@network.ucsd.

Subject: IPS Monthly Report - April 94

To: info-hams@ucsd.edu

SUBJ: IPS MONTHLY REPORT - APRIL 1994

ISSUED BY IPS RADIO AND SPACE SERVICES

FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.

1. SOLAR-GEOPHYSICAL INDICES

Day	SOLAR 10 cm flux	MAGNETIC A-INDEX	AUST T INDEX
April 01	082	05	24
April 02	079	44	35
April 03	077	53	31
April 04	077	39	46
April 05	077	24	64
April 06	073	31	25
April 07	073	35	27
April 08	073	29	36
April 09	073	39	18

April 10	075	31	9
April 11	074	29	2
April 12	074	23	12
April 13	074	24	20
April 14	079	22	22
April 15	080	15	24
April 16	082	17	38
April 17	082	60	67
April 18	084	20	20
April 19	085	15	40
April 20	086	08	39
April 21	087	12	39
April 22	085	06	50
April 23	085	10	39
April 24	083	08	47
April 25	083	08	47
April 26	081	06	45
April 27	078	06	42
April 28	077	04	49
April 29	078	06	45
April 30	075	02	40

Monthly Values

		10 CM FLUX	SUNSPOT	NUMBER	A INDEX	AUST	FLARES
				T	INDEX		
Month		Monthly Average	Monthly Average	Yearly Average	Monthly Average	Monthly Average	>M1.0
April	94	79.0	16.7		21.0	34.7	0
March	94	90.5	31.7		17.5	36.9	0
February	94	99.5	35.9		22.5	38.0	2
January	94	115.0	58.8		12.4	60.2	11
December	93	104.9	49.4		10.4	56.4	8
November	93	95.8	34.8		11.7	50.0	3
October	93	100.2	55.4	44.7	11.6	31.3	3
September	93	86.3	21.7	48.2	12.3	33.6	2
August	93	93.7	42.0	52.1	11.0	48.7	1
July	93	99.0	57.3	54.4	10.6	59.6	4
June	93	109.4	49.1	55.8	13.0	62.6	13
May	93	112.4	61.2	59.6	11.0	64.3	5
April	93	115.5	61.9	63.4	15.7	77.7	3

IPS Predicted (Yearly Smoothed) Sunspot Numbers for November 1993-October 1994

Month	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
SSN	41.4	39.1	36.8	34.8	34.1	32.8	30.9	29.1	26.3	23.9	22.5	21.9

Latest T-Indices for IPS Advanced Stand-Alone Prediction System-(ASAPS)

Last update: April 1994 Solar-Geophysical Summary

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1988	45	43	58	74	72	84	84	95	115	132	116	128
1989	147	164	135	140	141	157	162	149	143	159	164	152
1990	150	128	135	129	126	138	136	138	141	136	122	133
1991	142	176	172	164	136	118	141	128	136	131	121	130
1992	152	172	156	134	95	79	89	66	68	67	85	89
1993	75	78	80	65	63	63	55	47	34	31	37	58
1994	39*	37*	36*	35*	34*	31*	28*	26*	24*	22*	21*	19*
1995	18*	18*	17*	16*	15*	14*	14*	13*	12*	11*	11*	10*
1996	10*	9*	9*	8*	8*	8*	8*	9*	9*	10*	11*	12*
1997	13*	15*	17*	19*	21*	23*	26*	30*	33*	38*	43*	48*

Asterisk indicates predicted value.

For information concerning ASAPS for an IBM PC (or compatible) contact IPS.

The IPS Monthly T-index is derived from the observed monthly median values of foF2 for each hour at up to 40 ionospheric stations worldwide. These records become available from IPS stations in Australia very soon after each month, but the majority are received up to one year later. This means that the exact observed value of the monthly T-index is not available until some months later.

The predicted smoothed monthly T-indices are computed by using a statistical analysis of the observed monthly T-indices for all solar cycles since 1938. The IPS T-indices may not be updated each month but only when sufficient new data becomes available.

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2. FLARES AND SHORT-WAVE FADEOUTS

All M flares with an energy greater than or equal to M1 are tabulated under class M flares.

However, times of fade-outs are shown only for flares with an energy greater than X-ray class M3.

DATE	CLASS M FLARES	CLASS X FLARES	FADEOUT POSSIBLE ON DAYLIGHT CIRCUIT
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None.

2.1 Comments on Solar Activity.

Solar activity was at very low to low levels throughout the month.

Daily 10cm flux values continued at low levels.

The peak value for the month was 87 on April 21. The minimum value for the month was 73, observed from April 6-9.

The monthly sunspot number of 16.7 was the lowest value observed since March

1987 (not long after solar minimum in September 1986). Interestingly, activity was almost absent in the southern hemisphere of the sun, continuing the trend shown on the back page of last month's Solar-Geophysical Summary.

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3. GEOMAGNETIC DISTURBANCES (for Learmonth, WA)

DATE	COMMENTS
------	----------

April 2-14	Active to minor storm levels were regularly observed from April 2-14. In addition, periods of major storm levels were observed on April 5.
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April 16-18	After subsiding over April 15, geomagnetic activity picked up again from April 16-18, with major storm levels observed on April 17 and active periods observed on April 16 and 18.
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3.1 Comments on Geomagnetic Activity.

Lengthy recurrent disturbances were again observed this month. The two most disturbed days of the month were April 3 and April 17, with A indices of 53 and 60, respectively. Recurrent activity began again on May 1 and is expected continue until around May 15.

=====

4. IONOSPHERIC DISTURBANCES (for Sydney)

DATE	MUFs
------	------

April 1	Depressions of 15% were observed for the first half of the local day.
---------	---

April 2-3	Depressions of 30% were observed April 2/22 - 3/01UT (from just after local dawn on April 3). Spread F was observed during the local night on April 3.
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April 6-7	Depressions of 10-15% were observed during local daytime. Spread F was observed during the local night on April 7.
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April 9	Depressions of 15-25% were observed during local daytime.
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April 10-12	Depressions of 15-30% were observed throughout the day, with strong spread F observed during the local night.
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April 13	Depressions of 15-30% were observed for the first half of the local day.
----------	--

April 17	Frequencies were variable, with enhancements of up to 30% at times (probably due to the geomagnetic storm that was in progress). Spread F
----------	---

was observed during the local night.

April 18 Depressions of 15% were observed during the local day, with spread F observed during the local night.

April 19 Depressions of 15-20% and Spread F were observed at times during the local night.

April 20-21 Spread F was observed at times during the local night.

4.1 Comments on Ionospheric Conditions.

Ionospheric conditions during April were again degraded by pro-longed geomagnetic activity. The largest depressions were observed on April 10-12, with generally degraded conditions from April 2-17.

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5. IPS WARNINGS AND ALERTS ISSUED

WARNING NO	ISSUE TIME	ISSUE DATE	BEGIN	END	COMMENTS
10	0044 UT	31 03 1994	03 04 1994	14 04 1994	Magnetic and Ionospheric
11	0257 UT	15 04 1994	17 04 1994	20 04 1994	Magnetic and Ionospheric
12	2337 UT	25 04 1994	29 04 1994	11 05 1994	Magnetic and Ionospheric

SIGNIFICANT EVENT SUMMARY NO	TIME	DATE	COMMENTS
None.			

SWF WARNING NO	TIME	DATE
None.		

DATE OF ISSUE	TYPE OF ALERT
04 Apr	Magnetic
05 Apr	Magnetic
07 Apr	Magnetic
08 Apr	Magnetic
09 Apr	Magnetic
10 Apr	Magnetic
12 Apr	Magnetic
17 Apr	Magnetic
18 Apr	Magnetic

DATE	SWF BEGIN-END (UT)
None.	

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IPS Regional Warning Centre, Sydney	IPS Radio and Space Services
email: rwc@ips.oz.au fax: +61 2 4148331	PO Box 5606

RWC Duty Forecaster tel: +61 2 4148329 |West Chatswood NSW 2057
Recorded Message tel: +61 2 4148330 |AUSTRALIA

Date: 2 May 1994 00:55:22 GMT
From: pa.dec.com!nntpd.lkg.dec.com!iamu.chi.dec.com!little@decwrl.dec.com
Subject: Luck Hurder ... gone:(Why?
To: info-hams@ucsd.edu

In article <Js1NLc1w165w@voxbox.norden1.com>, jgrubs@voxbox.norden1.com (Jim Grubs, W8GRT) writes:

|>
|>Basically, the BoD made a new rule that field appointees had to
|>send their superiors a copy of all League related
|>correspondence. Luck leaked the news to the peons before the
|>patrones were ready.
|>

Well that certainly sounds like a felony to me. You mean they only fired him over such treasonous action? I would have thought that death by injection or slow torture would have been more appropriate. :-(

Superiors? Blech! Maybe there really **is** a reason I'm in RACES and not ARES.

73,
Todd
N9MWB

Date: Mon, 2 May 1994 02:26:28 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!newsserver.jvnc.net!yale.edu!news.yale.edu!revco@network.ucsd.edu
Subject: Recs for HF transceiver
To: info-hams@ucsd.edu

after about 8 yrs off the HF bands, i've decided to get back, but my old kenwood ts-520 has bitten the dust (repair estimate in excess of \$225!!)

anyone have recommendations on a mid-range replacement, something reliable and easy to maintain--e.g <=\$800. is there really any significant diff. between icom, vs. kenwood, vs. yaesu.

jim revkin

KA1QJ revco@revco.med.yale.edu thanks

Date: 2 May 1994 01:52:59 GMT
From: ihnp4.ucsd.edu!agate!kabuki.EECS.Berkeley.EDU!kennish@network.ucsd.edu
To: info-hams@ucsd.edu

References <1994Apr30.141556.4595@ohstpy.mps.ohio-state.edu>,
<2pufer\$jn3@agate.berkeley.edu>, <2pv0nr\$gme@bigfoot.wustl.edu>
Subject : Re: Ni-Metal-Hydride batts for handhelds?

In article <2pv0nr\$gme@bigfoot.wustl.edu>,
Jesse L Wei <jlw3@cec3.wustl.edu> wrote:
>Ken A. Nishimura (kennish@kabuki.EECS.Berkeley.EDU) wrote:
>: then the new Panasonic 900 mAh NiCd cells look mightly appealing.
>
>are these "AA" 900 mAh Nicads???? Gosh, you've got me drooling now!!!

Yes, they are, but before I get the net drooling, I learned
about this through hearsay, from Panasonic's competitor,
Eveready. We were talking about NiMH batteries, and he let
it slip that Panasonic one-upped them and had a 900 mAh AA
cell. The drawback is cycle life (250 or so vs. 1000).
I doubt that a competitor would fabricate something that
would hurt their own business :-) Your mileage may vary.

-Ken

End of Info-Hams Digest V94 #477
